

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/702,228
Source:	IFWO
Date Processed by STIC:	6/2/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4:2: PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual cPAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Eöbby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,228

DATE: 06/02/2004 TIME: 12:05:44

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

```
4 <110> APPLICANT: Slater, Michael R.

Wood, Keith V.

Hartnett, James Robert

Promega Corporation

12 <120> TITLE OF INVENTION: Vectors for Directional Cloning

Classification Current Application Number: 10/702,228

CURRENT APPLICATION NUMBER: 10/702,228

CURRENT FILING DATE: 2003-11-05

PRIOR APPLICATION NUMBER: 10/678,961

PRIOR FILING DATE: 2003-10-03

NUMBER OF SEQ ID NOS: 92
```

Does Not Comply

18

PS.6-7

Corrected Diskette Needed

24 <210> SEQ ID NO: 1 25 <211> LENGTH: 18

25 (ZII) DENGIII. 10

26 <212> TYPE: DNA

27 <213> ORGANISM: Artificial Sequence

29 <220> FEATURE:

30 <223> OTHER INFORMATION: A synthetic DNA fragment

22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

32 <220> FEATURE:

33 <221> NAME/KEY: misc feature

34 <222> LOCATION: 18

35 <223 > OTHER INFORMATION: n = A, T, G, or C

37 <400> SEQUENCE: 1

#### W--> 38 aaggagcgat cgccatgn

40 <210> SEQ ID NO: 2

41 <211> LENGTH: 11

42 <212> TYPE: DNA

43 <213> ORGANISM: Artificial Sequence

45 <220> FEATURE:

46 <223> OTHER INFORMATION: A synthetic DNA fragment

48 <220> FEATURE:

49 <221> NAME/KEY: misc\_feature

50 <222> LOCATION: 8-10

51 <223 > OTHER INFORMATION: n = A, T, G, or C

53 <220> FEATURE:

54 <221> NAME/KEY: misc\_feature

55 <222> LOCATION: 11

56 <223> OTHER INFORMATION: n

58 <400> SEQUENCE: 2

W--> 59 cgccatgnnn n

66 <210> SEQ ID NO: 3

67 <211> LENGTH: 12

68 <212> TYPE: DNA

(N)

"CAN ONLY
Represent
Represent
Nucleotide
Nucleotide

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

an open reading frame

6/2/04

file://C:\CRF4\Outhold\VsrJ702228.htm

10

13

11

#### RAW SEQUENCE LISTING DATE: 06/02/2004 PATENT APPLICATION: US/10/702,228 TIME: 12:05:44 Input Set : A:\341030US1.txt Output Set: N:\CRF4\06022004\J702228.raw 69 <213> ORGANISM: Artificial Sequence 72 <220> FEATURE: 73 <223> OTHER INFORMATION: A synthetic DNA fragment 75 <220> FEATURE: 76 <221> NAME/KEY: misc\_feature 77 <222> LOCATION: 1-6 78 <223> OTHER INFORMATION: n = A, T, G, or C 80 <400> SEQUENCE: 3 W--> 81 nnnnnngtct tc 12 83 <210> SEQ ID NO: 4 84 <211> LENGTH: 10 85 <212> TYPE: DNA 86 <213> ORGANISM: Artificial Sequence 88 <220> FEATURE: 89 <223> OTHER INFORMATION: A synthetic DNA fragment 91 <220> FEATURE: 92 <221> NAME/KEY: misc\_feature 93 <222> LOCATION: 1-4 94 <223> OTHER INFORMATION: n = A, T, G, or C

99 <210> SEQ ID NO: 5 100 <211> LENGTH: 13

101 <212> TYPE: DNA

102 <213> ORGANISM: Artificial Sequence

104 <220> FEATURE:

105 <223> OTHER INFORMATION: A synthetic DNA fragment

107 <220> FEATURE:

108 <221> NAME/KEY: misc feature

109 <222> LOCATION: 6-13

110 <223> OTHER INFORMATION: n = A, T, C, or G

112 <400> SEQUENCE: 5

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115 <210> SEQ ID NO: 6 116 <211> LENGTH: 11

117 <212> TYPE: DNA

118 <213> ORGANISM: Artificial Sequence

120 <220> FEATURE:

121 <223> OTHER INFORMATION: A synthetic DNA fragment

123 <220> FEATURE:

124 <221> NAME/KEY: misc\_feature

125 <222> LOCATION: 1-5

126 <223> OTHER INFORMATION: n = A, T, G or C

128 <400> SEQUENCE: 6

### N--> 129 nnnnngagac g

132 <210> SEQ ID NO: 7

133 <211> LENGTH: 11

134 <212> TYPE: DNA

135 <213> ORGANISM: Artificial Sequence

DATE: 06/02/2004

TIME: 12:05:44

#### Input Set : A:\341030US1.txt Output Set: N:\CRF4\06022004\J702228.raw 137 <220> FEATURE: 138 <223> OTHER INFORMATION: A synthetic DNA fragment 140 <220> FEATURE: 141 <221> NAME/KEY: misc feature 142 <222> LOCATION: 4-8 143 <223> OTHER INFORMATION: n = A, T, C, or G 145 <400> SEQUENCE: 7 11 W--> 146 gccnnnngg c 148 <210> SEQ ID NO: 8 149 <211> LENGTH: 14 150 <212> TYPE: DNA 151 <213> ORGANISM: Artificial Sequence 153 <220> FEATURE: 154 <223> OTHER INFORMATION: A synthetic DNA fragment 156 <220> FEATURE: 157 <221> NAME/KEY: misc\_feature 158 <222> LOCATION: 6-14 159 <223> OTHER INFORMATION: n = A, T, G, or C 161 <400> SEQUENCE: 8 14 W--> 162 ggatgnnnnn nnnn 164 <210> SEQ ID NO: 9 165 <211> LENGTH: 11 166 <212> TYPE: DNA 167 <213> ORGANISM: Artificial Sequence 169 <220> FEATURE: 170 <223> OTHER INFORMATION: A synthetic DNA fragment 172 <220> FEATURE: 173 <221> NAME/KEY: misc feature 174 <222> LOCATION: 1-5 175 <223> OTHER INFORMATION: n = A, T, G or C 177 <400> SEQUENCE: 9 11 W--> 178 nnnnngagac c 180 <210> SEQ ID NO: 10 181 <211> LENGTH: 10 182 <212> TYPE: DNA 183 <213> ORGANISM: Artificial Sequence 185 <220> FEATURE: 186 <223> OTHER INFORMATION: A synthetic DNA fragment 190 <220> FEATURE: 191 <221> NAME/KEY: misc\_feature 192 <222> LOCATION: 6-10 193 <223 > OTHER INFORMATION: N = A, T, G, or C196 <400> SEQUENCE: 10 10 W--> 197 gacgcnnnnn 199 <210> SEQ ID NO: 11 200 <211> LENGTH: 11 201 <212> TYPE: DNA 202 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,228

204 <220> FEATURE:

# RAW SEQUENCE LISTING DATE: 06/02/2004 PATENT APPLICATION: US/10/702,228 TIME: 12:05:44

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

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205 <223> OTHER INFORMATION: A synthetic DNA fragment
     207 <220> FEATURE:
     208 <221> NAME/KEY: misc feature
     209 <222> LOCATION: 3-9
     210 <223> OTHER INFORMATION: n = A, T, G, or C
     212 <400> SEQUENCE: 11
W--> 213 connnnnng g
                                                                                  11
     215 <210> SEQ ID NO: 12
     216 <211> LENGTH: 11
     217 <212> TYPE: DNA
     218 <213> ORGANISM: Artificial Sequence
     220 <220> FEATURE:
     221 <223> OTHER INFORMATION: A synthetic DNA fragment
     223 <220> FEATURE:
     224 <221> NAME/KEY: misc feature
     225 <222> LOCATION: 3-9
     226 <223> OTHER INFORMATION: n = A, T, G, or C
     228 <400> SEQUENCE: 12
W--> 229 gcnnnnnnng c
                                                                                  11
     231 <210> SEQ ID NO: 13
     232 <211> LENGTH: 10
     233 <212> TYPE: DNA
     234 <213> ORGANISM: Artificial Sequence
     236 <220> FEATURE:
     237 <223> OTHER INFORMATION: A synthetic DNA fragment
     239 <220> FEATURE:
     240 <221> NAME/KEY: misc feature
     241 <222> LOCATION: 1-5
     242 <223 > OTHER INFORMATION: n = A, T, C, or G
     244 <400> SEQUENCE: 13
                                                                                  10
W--> 245 nnnnngagac
     247 <210> SEO ID NO: 14
     248 <211> LENGTH: 11
     249 <212> TYPE: DNA
     250 <213> ORGANISM: Artificial Sequence
     252 <220> FEATURE:
     253 <223> OTHER INFORMATION: A synthetic DNA fragment
     255 <220> FEATURE:
     256 <221> NAME/KEY: misc feature
     257 <222> LOCATION: 4-8
     258 <223> OTHER INFORMATION: n = A, T, G, or C
     260 <400> SEQUENCE: 14
W--> 261 ccannnnntg g
                                                                                  11
     263 <210> SEQ ID NO: 15
     264 <211> LENGTH: 15
     265 <212> TYPE: DNA
     266 <213> ORGANISM: Artificial Sequence
    268 <220> FEATURE:
    269 <223> OTHER INFORMATION: A synthetic DNA fragment
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#### RAW SEQUENCE LISTING

DATE: 06/02/2004 TIME: 12:05:44

PATENT APPLICATION: US/10/702,228

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

```
271 <220> FEATURE:
     272 <221> NAME/KEY: misc feature
     273 <222> LOCATION: 6-15
     274 <223> OTHER INFORMATION: n = A, T, G, or C
     276 <400> SEQUENCE: 15
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W--> 277 gtcccnnnnn nnnnn
     279 <210> SEQ ID NO: 16
     280 <211> LENGTH: 11
     281 <212> TYPE: DNA
     282 <213> ORGANISM: Artificial Sequence
     284 <220> FEATURE:
     285 <223> OTHER INFORMATION: A synthetic DNA fragment
     287 <220> FEATURE:
     288 <221> NAME/KEY: misc_feature
     289 <222> LOCATION: 1-4
     290 <223> OTHER INFORMATION: n = A, T, G, or C
     292 <400> SEQUENCE: 16
                                                                                  11
W--> 293 nnnngaagag c
     295 <210> SEQ ID NO: 17
     296 <211> LENGTH: 14
     297 <212> TYPE: DNA
     298 <213> ORGANISM: Artificial Sequence
     300 <220> FEATURE:
     301 <223> OTHER INFORMATION: A synthetic DNA fragment
     303 <220> FEATURE:
     304 <221> NAME/KEY: misc feature
     305 <222> LOCATION: 1-8
     306 <223> OTHER INFORMATION: n = A, T, G, or C
     308 <400> SEQUENCE: 17
                                                                                  14
W--> 309 nnnnnnnngc aggt
     314 <210> SEQ ID NO: 18
     315 <211> LENGTH: 14
     316 <212> TYPE: DNA
     317 <213> ORGANISM: Artificial Sequence
     320 <220> FEATURE:
     321 <223> OTHER INFORMATION: A synthetic DNA fragment
     323 <220> FEATURE:
     324 <221> NAME/KEY: misc feature
     325 <222> LOCATION: 1-9
     326 <223> OTHER INFORMATION: n = A, T, G, or C
     328 <400> SEQUENCE: 18
                                                                                  14
W--> 329 nnnnnnnnn atgc
     331 <210> SEQ ID NO: 19
     332 <211> LENGTH: 12
     333 <212> TYPE: DNA
     334 <213> ORGANISM: Artificial Sequence
     336 <220> FEATURE:
     337 <223> OTHER INFORMATION: A synthetic DNA fragment
     339 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/02/2004 PATENT APPLICATION: US/10/702,228 TIME: 12:05:45

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:1; N Pos. 18
Seq#:2; N Pos. 8,9,10,11
Seq#:3; N Pos. 1,2,3,4,5,6
Seq#:4; N Pos. 1,2,3,4
Seq#:5; N Pos. 6,7,8,9,10,11,12,13
Seq#:6; N Pos. 1,2,3,4,5
Seq#:7; N Pos. 4,5,6,7,8
Seq#:8; N Pos. 6,7,8,9,10,11,12,13,14
Seq#:9; N Pos. 1,2,3,4,5
Seg#:10; N Pos. 6,7,8,9,10
Seq#:11; N Pos. 3,4,5,6,7,8,91
Seq#:12; N Pos. 3,4,5,6,7,8,9
Seq#:13; N Pos. 1,2,3,4,5
Seq#:14; N Pos. 4,5,6,7,8
Seq#:15; N Pos. 6,7,8,9,10,11,12,13,14,15
Seg#:16; N Pos. 1,2,3,4
Seq#:17; N Pos. 1,2,3,4,5,6,7,8
Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9
Seq#:19; N Pos. 4,5,6,7,8,9
Seq#:20; N Pos. 5,6,7,8,9
Seg#:21; N Pos. 1,2,3,4,5
Seq#:22; N Pos. 7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:23; N Pos. 4,5,6,7
Seg#:40; N Pos. 4,5,6,7
Seq#:54; N Pos. 4,5,6,7
Seg#:55; N Pos. 4,5,6,7
Seq#:69; N Pos. 14
Seq#:70; N Pos. 1,2,3
Seq#:71; N Pos. 1,2,3,4
Seq#:72; N Pos. 1,2,3,8,9,10
Seq#:73; N Pos. 6,7,8,9,10,11,12,13,14,15,16,17,18
Seq#:74; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13
Seq#:75; N Pos. 8,9,10,11,12,13,14,15
Seq#:76; N Pos. 8,9,10,11
Seq#:77; N Pos. 5,6,7,8,9
Seq#:78; N Pos. 8,9,10,11
Seq#:79; N Pos. 3,4,5,6,7,8,9
Seq#:80; N Pos. 5,6,7,8,9
Seq#:81; N Pos. 4,5,6,7,8
Seq#:82; N Pos. 7,8,9,10,11,12,13,14,15,16,17,18
Seq#:83; N Pos. 1
Seq#:84; N Pos. 1
Seq#:86; N Pos. 1,2,3,12
Seq#:87; N Pos. 1,2,3,11
```

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/702,228

DATE: 06/02/2004 TIME: 12:05:45

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

Seq#:88; N Pos. 1,2,3,11

Seq#:89; N Pos. 1

Seq#:91; N Pos. 1,2,3,12
Seq#:92; N Pos. 7,8,9,10

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/702,228

DATE: 06/02/2004 TIME: 12:05:45

Input Set : A:\341030US1.txt

Output Set: N:\CRF4\06022004\J702228.raw

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L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:1065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0
L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:1098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:1163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:1229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:1246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:1263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:1291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:1324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:1368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
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